Department of Environmental Quality

Division of Air Quality

Permit Application (Please type or print)

1.	Comapany Name: Solvay Soda Ash Jo	oint Venture		
2.	Mailing address: P.O. Box 1167 (#1 V	Vestvaco Road) Green River, Wyoming 82935		
3.	Plant name (if different from #1): (same)		
4.	Plant Location (if different from #2): N	IE ¼ of Section 31, Township 18 North, Range 109 West		
	Sweetwater County, Wyoming			
	Plant Mailing Address: (same as above)	1		
5.	Name of Owner: Solvay Soda Ash Joi	nt Venture phone #(307) 875-6500		
6.	Responsible Official: Richard L. Cas	ey phone #(307)875-6500		
7.	Permit application is made for:			
	New constructionX	_ Modification		
	Relocation	_ Operation		
8.	Type of equipment to be constructed, modified, or relocated. (Please list each <u>major</u> piece of equipment separately.)			
9.		n of an existing source in a new location, list previous location and		
	New location:			
10.	Crushing Activities:			
	a. Primary crushing	Type control equipment		
	b. Secondary crushing	Type control equipment		
	c. Tertiary crushing	Type control equipment		
	d. Recrushing & screening	Type control equipment		
	e. Conveying	Type control equipment		
	f. Drying	Type control equipment		
10.	g. Other Type Crushing Activities Continued:	e control equipment		

SOLVAY2016_1.4_001098

November 15, 1996

Proposed dates of operation (month/year) _____ January, 1997

11. Materials used in unit or process (include solid fuels):

Material	Process Weight Average (lb/hr)	Process Weight Maximum (lb/hr)	Quantity/Year

12. Air contaminants emitted:

Emission Point	Pollutant	lb/hr	ton/yr	Basis of Data
AQD #74 (North Headframe BH)	particulate	0.61	2.66	estimate
AQD #75 (Primary Crushing BH)	particulate	2.43	10.66	estimate
AQD #76 (Primary Screening BH)	particulate	2.43	10.66	estimate
AQD #77 (Transfer BH)	particulate	0.61	2.66	estimate
AQD #78 (Transfer BH)	particulate	0.61	2.66	estimate
AQD #79 (Transfer Point DC)	particulate	0.35	1.55	estimate
AQD #80 (Calciner ESP)	particulate NO_{X}	20 20	88 88	estimate
AQD #81 (Dryer Area BH)	particulate	10	44	estimate
AQD #82 (Dryer ESP)	particulate NO_{X}	7.13 20	31.23 88	estimate
AQD #83 (Silo Top BV)	particulate	0.54	2.35	estimate
AQD #84 (Silo Bottom BF)	particulate	1.14	4.97	estimate

13. Air contaminant control equipment:

Emission Point	Туре	Pollutant Removed	Efficiency
AQD #74	Mikro Pulsaire Dust Collector Model 49S-10-20	particulate	99.9%
AQD #75	Mikro Pulsaire Dust Collector Model 49S-10-20	particulate	99.9%
AQD #76	Mikro Pulsaire Dust Collector Model 49S-10-20	particulate	99.9%
AQD #77	Mikro Pulsaire Dust Collector Model 49S-10-20	particulate	99.9%
AQD #78	Mikro Pulsaire Dust Collector Model 49S-10-20	particulate	99.9%
AQD #79	Ducon Twin Arrangement Cyclones Size 2-145	particulate	50%
AQD #80	Ducon Oriclone	particulate	99.9%
	Venturi Scrubber	NO_X	NO_X
AQD #81	Ducon Oriclone Venturi Scrubber	particulate	99.9%
AQD #82	Ducon Oriclone	particulate	99.9%
	Venturi Scrubber	NO_X	NO_X
AQD #83	Ducon Oriclone Venturi Scrubber	particulate	99.9%
AQD #84	Norton Snowflake Packed Bed 5 ft dia X 12.5 ft deep	SO ₂	99%

14.	Type of combustion unit _(check if applicable) :				
	A. Coal_				
	1. Pulverized _	:			
	General	: Dry Bottom	: With Flyash Reinjection		

	2. Spreader Stoker	r:				
	With Flyash Reinje	ection;	Without Flya	sh Reinjection	; Cyclone;	
	Hand-Fired	<u>;</u>				
	B. Fuel Oil					
	Horizontally Fired		; Tangent	ally Fired	;	
	C. Natural Gas	X				
	D. If other, please	specify			<u> </u>	
Hourly	fuel consumption (es	stimate for new equ	uipment)	/hr		
Size of	combustion unit	BTU he	at input/hour			
15. Op	erating Schedule:	24 hours/day; 7	_days/week;	52 weeks/year.		
Peak	x production season ((if any): No	one			
16. Fu	el analysis:					
		A. Coal	В.	Fuel Oil	C. Natural Gas	
	% sulfur					
	% ash					
	BTU Value				1080 Btu/SCF	
17.	Products of proces	s or units:				
		Products			Quantity/Year	
	Ba	gged Soda Ash		1	1.2 MM Tons/Year	

18. Emissions to the atmosphere (each point of emission should be listed separately and numbered so that it can be located on the flow sheet): **This information is preliminary, it will be submitted when final specifications have been defined.**

Emission Point	Stack Height (ft)	Stack Diameter (ft)	Gas Discharged SCFM	Exit Temp (°F)	Gas Velocity (ft/s)
AQD #74			4731	68	
AQD #75			18924	68	
AQD #76			18924	68	
AQD #77			4731	68	
AQD #78			4731	68	
AQD #79			2760	68	
AQD #80			109028	350	
AQD #81			27598	68	
AQD #82			55456	450	
AQD #83			4179	68	
AQD #84			8831	68	

19. Does the input material or product from this process or unit contain finely divided materials we become airborne?					
		X Yes	No		
	Is this material stored in piles or in some other way as to make possible the creation of dust problems?				
		X Yes	No		
	List storage piles (if any):				

Type of Material	Particle Size (Diameter or Screen Size)	Pile Size (Average Tons on Pile)	Pile Wetted (Yes or No)	Pile Covered (Yes or No)
Trona			No	Yes

- 20. Using a flow diagram:
 - (1) Illustrate input of raw materials.
 - (2) Label production processes, process fuel combustion, process equipment, and air pollution control equipment.
 - (3) Illustrate locations of air contaminant release so that emission points under items 11, 12 and 17 can be identified. For refineries, show normal pressure relief and venting systems. Attach extra pages as needed.
- 21. A site map should be included indicating the layout of facility at the site. All buildings, pieces of equipment, roads, pits, rivers and other such items should be shown on the layout.

See Drawing No.

A location drawing should be included indicating location of the facility with respect to prominent highways, cities, towns, or other facilities (include UTM coordinates).

See Site Location Map.

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"I certify to the accuracy of the plans, specifications, and supplementary data submitted with this application. It is my opinion that any new equipment installed in accordance with these submitted plans and operated in accordance with the manufacturer's recommendations will meet emission limitations specified in the Wyoming Air Quality Standards and Regulations."

Signature
Typed Name Richard L. Casey
Title Vice President
Company Solvay Soda Ash Joint Venture
Mailing Address P.O. Box 1167, Green River, Wyoming 82935 Telephone (307) 875-6500
P.E. Registration (if applicable) N/A
State where registered